Amendments to the Drawings:

The attached sheet of drawings includes changes to the figure. The handwritten notations have been eliminated.

Attachment: Replacement Sheet

REMARKS

In response to the objection of the drawings set forth at page 2 of the Office Action, a replacement sheet is submitted herewith containing a new rendition of the figure, in which the handwritten notations have been eliminated. With regard to the designation 3a, Applicants note that this reference numeral has been used consistently in the drawing to designate only the memory, each of the control units having been designated by the reference numeral 3. In the control unit at the upper right in the figure, the memory is depicted as being incorporated with the control unit, but is still consistently designated by the reference numeral 3a. If nevertheless, the Examiner remains of the view that this designation needs to be changed, clarification is respectfully requested.

Claims 1-20 have been rejected under 35 U.S.C. §102(a) as anticipated by Brunts et al (U.S. Patent No. 5,887,269). However, for the reasons set forth hereinafter, Applicants respectfully submit that all claims which remain of record in this application distinguish over the Brunts et al reference.

The present invention is directed to a method and apparatus for storing control unit data, such as program code for sequence control or characteristic diagram control of a control unit in a vehicle. In modern vehicles, many such control units are conventionally provided, for controlling individual systems on board the vehicle, such as air conditioning, automatic transmission, brakes,

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lights, audio equipment, locks, etc. Such control units are normally coupled in

data communication by a high speed communications link, such as a data bus or

the like.

As noted in paragraph [0005] of the specification of the present

application, when it becomes necessary to update or replace control unit data

which are stored in memories associated with the various control units onboard

the vehicle, it is conventional to implement such updating via a diagnostic

interface of the motor vehicle, which is a relatively slow communication device.

The present invention addresses and resolves the latter problem by

reading the updated control unit data from a portable data carrier device, such

as a CD or the like, and communicating the control unit data thus acquired to

the appropriate control unit via the high speed communication link which

couples the respective control units onboard the vehicle. This process is

controlled by a processor, advantageously a program controlled microprocessor,

which causes the reader unit to read the required data from the data carrier, and

controls transmission of that data to the proper control unit via the data bus. In

this manner, a high speed input of information is achieved. According to one

embodiment of the invention, the processor reads out and processes storing

and/or updating instructions stored on the data carrier, including storing and/or

updating sequence control.

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The Brunts et al reference on the other hand, discloses a navigation system in which a transportable memory card may be used to provide a user modifiable data base. For this purpose, a reading device is provided for reading information (for example, address information) from a data carrier, such as a memory card. (See Column 7, lines 12-16; and lines 50-52; Column 12, lines 45-47.) The information read in this manner may be stored in a random access memory 96 for use by the navigation system and used to generate navigation instructions to the vehicle operator.

As can be seen from the foregoing brief description, the Brunts et al reference appears to be similar to the present invention to the extent that it uses an interface device to read information from a portable data storage unit in order to provide information for the operation of an onboard vehicle system (in particular, a navigation system). However, Brunts et al fails to teach or suggest a system in which the storing or updating process is carried out under the control of a program-controlled microprocessor according to storing and/or updating instructions read from the data carrier, as recited in Claim 8. In addition, Brunts et al also fails to teach or suggest a system in which control unit data are selectively read from a media carrier under control of a data processor, which controls communication of the control unit data to a selected control unit via a high speed communication data bus on board the vehicle, as recited in Claims 14, 16 and 21. In particular, Claim 14 recites that the data processor is

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coupled in data communication with the control unit via a data bus system in the

vehicle, and "communicates said control unit data to said control unit via said

data bus system in accordance with instructions read from said data carrier, for

storing and/or updating sequence control in said data processor". Similarly,

Claim 21 recites that the data processor is "programmed to cause said interface

device to read selected control unit data from a memory unit coupled in

communication with said interface device, and to communicate said selected

control unit to said control unit via said high speed data link" on board the

vehicle.

Claim 16, on the other hand, recites that a step of "communicating said

control unit data to said control unit via said data bus".

The Brunts et al reference does not appear to provide for internal

communication of selected data within the vehicle via a high speed data bus of

the type commonly provided in vehicles, as noted previously. Rather, insofar as

Applicants have been able to determine, the Brunts et al apparatus merely

communicates the destination information into the RAM 96 (Figure 4), as noted

previously, in a manner which is not otherwise described. While a "bus" 80 is

shown in Figure 3, there appears to be nothing in the text of Brunts et al which

suggests that the data bus is used for this purpose, or to communicate control

unit data to other control units via the data bus under control of a programmed

controlled microprocessor, as recited in the claims of the present application.

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While it is conventional, as noted previously to provide such high speed

data communication buses on board modern vehicles, heretofore, the concept of

utilizing such a high speed internal data bus in conjunction with a media reader

interface and a controlling microprocessor to read information from an external

data carrier in order to update data contained in one of the control units, is new.

As noted in the text of the present application, this system is substantially faster

than the old system, which involved the use of special diagnostic interfaces. In

the absence of any teaching or suggestion of such a system in the cited Brunts et

al reference, Applicants respectfully submit that the claims in the present

application distinguish over that reference.

In light of the foregoing remarks, this application should be in condition

for allowance, and early passage of this case to issue is respectfully requested. If

there are any questions regarding this amendment or the application in general,

a telephone call to the undersigned would be appreciated since this should

expedite the prosecution of the application for all concerned.

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If necessary to effect a timely response, this paper should be considered as a petition for an Extension of Time sufficient to effect a timely response, and please charge any deficiency in fees or credit any overpayments to Deposit Account No. 05-1323 (Docket #080437.53242US).

Respectfully submitted,

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